

WATER MANAGEMENT

Water Management addresses the City Council Broad Goal of coordinating planning to balance infrastructure and resource needs within the budget. This program achieves this goal by delivering safer, reliable water and providing wastewater services. This program also reflects the City's commitment to federal and state regulations. In addition to capital program expenditures, approximately \$32.4 million of water development fee revenues over the five-year period will be transferred to the program budget to repay bonded debt. Approximately 34% (\$253.0 million) of the CIP has been identified to address the water and wastewater needs of the City. Highlights of this program include: 91st Avenue Wastewater Treatment Plant Improvements (\$82.3 million); Arsenic Mitigation Treatment (\$34.5 million); Chaparral Water Treatment Plant (\$78.4 million); and the Water Reclamation Plant-Phase 3 (\$20.8 million).

Project Number	Project Name	Adopted FY 2004/05	Forecast FY 2005/06	Forecast FY 2006/07	Forecast FY2007/08	Forecast FY 2008/09	Total	Estimated Annual Operating Impact	Volume 3 Page # Reference
Water Management									
V0402	91st Ave - Salt River Outfall Rehabilitation	(1,750.2)	7,000.0	1,000.0	1,000.0	-	9,000.0	-	122
V6402	91st Ave Waste Water Treatment Plant	(35,025.1)	40,636.0	4,000.0	5,000.0	6,000.0	58,636.0	-	122
V9901	91st Ave WWTP - UP01 Expansion	(20,029.0)	34,632.0	8,000.0	1,000.0	1,000.0	49,632.0	-	122
V0204	Advanced Water Treatment Plant - Phase 3	(271.4)	9,750.0	-	-	-	9,750.0	-	123
W2105	Alameda/122nd St Booster Pump Station	(18.6)	150.0	700.0	700.0	-	1,550.0	16.0	123
W3705	Architect / Engineer Services	(1,423.7)	1,710.0	-	150.0	-	1,860.0	-	123
W2106	Arsenic Mitigation Treatment	(2,206.7)	34,500.0	15,000.0	10,000.0	-	59,500.0	2,000.0	124
W9903	Booster Station Upgrades	(235.3)	575.0	-	-	-	575.0	2.0	124
W0301	CAP Hayden - Shea Water Connection	(759.7)	12,000.0	-	-	-	12,000.0	-	124
W0202	CAP Plant Expansion	(2,710.1)	31,400.0	3,000.0	3,000.0	20,000.0	57,400.0	1,300.0	125
W9911	Chaparral Water Treatment Plant	(14,779.4)	78,357.9	-	-	-	78,357.9	200.0	125
W4702	Chaparral WTP Influent Wateline	(903.4)	5,242.8	-	-	-	5,242.8	1.0	125
W0302	Chaparral WTP Water Distribution System	(250.8)	9,500.0	-	-	-	9,500.0	2.0	126
V9902	Citywide Flow Monitoring	(440.2)	910.0	-	-	-	910.0	-	126
V0501	Core North/South Sewer	-	567.0	322.0	87.5	802.5	2,598.0	2.0	126
W0501	Core North/South Water	-	567.0	322.0	87.5	819.0	2,598.0	2.0	127
W8515	Deep Well Recharge / Recovery Facilities	(480.5)	3,100.0	-	1,000.0	-	5,100.0	2.0	127
W0502	Inner Circle Booster Pump Station	-	400.0	1,200.0	-	-	1,600.0	2.0	127
V8620	Master Plan Update - Sewer	(217.6)	383.4	100.0	-	-	483.4	-	128
W8525	Master Plan Update - Water	(433.1)	766.8	300.0	-	-	1,066.8	-	128
V2101	Miller Road Sewer Phase 3	(0.1)	1,300.0	3,000.0	-	-	4,300.0	2.0	128
V4001	Radio Telemetry - Monitoring Automation Citywide (Sewer)	(363.9)	655.5	54.6	56.3	-	766.4	4.0	129
W4001	Radio Telemetry - Monitoring Automation Citywide (Water)	(550.2)	1,064.4	136.6	140.7	-	1,341.7	5.0	129
W0503	Regional GAC Regeneration Facility	-	380.0	1,270.0	3,000.0	-	4,650.0	750.0	129
V9908	Relief Sewers - Citywide	(731.8)	2,500.0	500.0	500.0	500.0	4,000.0	2.0	130
V0502	RWDS Improvements	-	865.0	-	485.0	-	1,350.0	-	130
W0303	Security Enhancements	(168.8)	850.0	350.0	350.0	350.0	2,250.0	2.0	130
V3704	Sewer Collection System Improvements	(2,548.8)	5,296.0	500.0	1,100.0	300.0	7,796.0	-	131
V0703	Sewer Oversizing	(1,124.7)	1,835.7	-	-	-	1,835.7	-	131
W0401	Union Hills to Hualapai Transmission Line-Pima Rd	-	750.0	-	-	-	750.0	-	131
W9912	Water Distribution System Improvements	(3,732.0)	7,500.0	2,500.0	2,000.0	1,250.0	15,250.0	-	132
W0710	Water Oversizing	(5,910.3)	8,214.1	-	-	-	8,214.1	-	132
W0205	Water Quality Improvements - Southern Neighborhoods	(710.7)	10,500.0	-	-	-	10,500.0	-	132
V0205	Water Reclamation Plant Phase 3	(2,266.6)	20,750.0	3,000.0	-	-	23,750.0	-	133
W6160	Water Rights Acquisition	(41,915.6)	44,052.0	-	-	20,916.0	64,968.0	-	133
W8570	Waterline Replacements	(11,963.0)	16,491.0	-	-	-	16,491.0	3.0	133
W4708	Well Sites	(14,266.4)	17,142.1	3,000.0	1,000.0	3,000.0	24,142.1	20.0	134
W9913	Zone 12 - 13 Water System Improvements	(6,197.2)	8,528.0	-	-	-	8,528.0	-	134
W0304	Zone 12 - 13 Water Transmission Lines	(79.3)	6,680.0	-	-	-	6,680.0	5.0	134
Estimated Expenditures Through 06/30/2004		(174,464.2)					(174,464.2)		
Total Water Management		253,037.5	48,255.2	30,657.0	54,921.0	13,588.0	400,458.7	4,322.0	

PROJECT DESCRIPTIONS

Water Management

91st Avenue – Salt River Outfall Rehabilitation

Project Number: V0402

Project Cost: \$9,000,000

Estimated ITD Expenditures: \$1,750,200

Operating Impact: \$0

Estimated Completion Date: 06-30-2007

Location: 91st Avenue in Phoenix

Description: Provide for capital modifications and improvements to the Salt River Outfall (SRO) sewer line which transmits sewer flows from Scottsdale City limits to the Phoenix 91st Avenue Treatment Plant, in which the City of Scottsdale has existing intergovernmental agreements with the Sub-Regional Operating Group (SROG).

Funding Source(s)	Adopted FY 2004/05	FY 2005/06	FY 2006/07	FY 2007/08	FY 2008/09	Total
Sewer Rates	7,000.0	1,000.0	1,000.0	-	-	9,000.0

91st Avenue Wastewater Treatment Plant

Project Number: V6402

Project Cost: \$58,636,000

Estimated ITD Expenditures: \$35,025,100

Operating Impact: \$0

Estimated Completion Date: Program-not applicable

Location: 91st Avenue in Phoenix

Description: Provide for facility modifications and improvements at the existing 91st Avenue Wastewater Treatment Plant.

Funding Source(s)	Adopted FY 2004/05	FY 2005/06	FY 2006/07	FY 2007/08	FY 2008/09	Total
Sewer Rates	39,130.6	4,000.0	5,000.0	6,000.0	3,000.0	57,130.6
Sewer Dev Fees	1,505.4	-	-	-	-	1,505.4
Total	40,636.0	4,000.0	5,000.0	6,000.0	3,000.0	58,636.0

91st Avenue Wastewater Treatment Plant – UP01 Expansion

Project Number: V9901

Project Cost: \$49,632,000

Estimated ITD Expenditures: \$20,029,000

Operating Impact: \$0

Estimated Completion Date: 06-30-2009

Location: 91st Avenue in Phoenix

Description: Provide for additional solids handling capacity at the 91st Avenue Wastewater Treatment Plant by contributing to the capital expansion of the plant's solid handling facility. Capacity expansion is due to growth and development within the city.

Funding Source(s)	Adopted FY 2004/05	FY 2005/06	FY 2006/07	FY 2007/08	FY 2008/09	Total
Sewer Dev Fees	34,632.0	8,000.0	1,000.0	1,000.0	5,000.0	49,632.0

PROJECT DESCRIPTIONS

Water Management

Advanced Water Treatment Plant - Phase 3

Project Number: V0204

Project Cost: \$9,750,000

Estimated ITD Expenditures: \$271,400

Operating Impact: \$0

Estimated Completion Date: 01-31-2006

Location: 8787 E. Hualapai Drive

Description: Current design for the Water Campus calls for expansion from its current capacity of 12 MGD to 20 MGD. This project allows for the further purification of reclaimed water prior to recharge into vadose zone wells. Elements of the project include expanded water treatment and recharge capability.

Funding Source(s)	Adopted FY 2004/05	FY 2005/06	FY 2006/07	FY 2007/08	FY 2008/09	Total
Wtr Res Dev Fees	2,047.5	-	-	-	-	2,047.5
Sewer Dev Fees	7,702.5	-	-	-	-	7,702.5
Total	9,750.0	-	-	-	-	9,750.0

Alameda/122nd Street Booster Pump Station

Project Number: W2105

Project Cost: \$1,550,000

Estimated ITD Expenditures: \$18,600

Operating Impact: \$16,000

Estimated Completion Date: 06-30-2007

Location: Alameda Road and 122nd Street

Description: This project will construct a 1.5 MGD Zone 13 booster pump station within the Sonoran Crest subdivision serving the southern areas of Zone 13 and Zones 12 and 11 to the east. The area is generally bounded between Jomax Road and the existing Preserve and 118th Street and the designated Preserve Initiative area.

Funding Source(s)	Adopted FY 2004/05	FY 2005/06	FY 2006/07	FY 2007/08	FY 2008/09	Total
Water Dev Fees	150.0	700.0	700.0	-	-	1,550.0

Architect/Engineer Services

Project Number: W3705

Project Cost: \$1,860,000

Estimated ITD Expenditures: \$1,423,700

Operating Impact: \$0

Estimated Completion Date: 06-30-2007

Location: Citywide

Description: Provide for consultant architect/engineer services on an as-needed basis for minor future studies, planning or design.

Funding Source(s)	Adopted FY 2004/05	FY 2005/06	FY 2006/07	FY 2007/08	FY 2008/09	Total
Water Dev Fees	1,710.0	-	150.0	-	-	1,860.0

PROJECT DESCRIPTIONS

Water Management

Arsenic Mitigation Treatment

Project Number: W2106

Project Cost: \$59,500,000 **Estimated ITD Expenditures:** \$2,206,700 **Operating Impact:** \$2,000,000

Estimated Completion Date: 04-30-2007

Location: Multiple locations

Description: Program to comply with the Arsenic Rule of the Safe Drinking Water Act. Design and construct regional arsenic treatment facilities near well sites throughout the City.

Funding Source(s)	Adopted FY 2004/05	FY 2005/06	FY 2006/07	FY 2007/08	FY 2008/09	Total
Water Rates	34,500.0	15,000.0	10,000.0	-	-	59,500.0

Booster Station Upgrades

Project Number: W9903

Project Cost: \$575,000 **Estimated ITD Expenditures:** \$235,300 **Operating Impact:** \$2,000

Estimated Completion Date: 06-30-2005

Location: Multiple locations

Description: Upgrade components of the water production system as needed to meet system demands.

Funding Source(s)	Adopted FY 2004/05	FY 2005/06	FY 2006/07	FY 2007/08	FY 2008/09	Total
Water Dev Fees	575.0	-	-	-	-	575.0

CAP - Hayden-Shea Water Connection

Project Number: W0301

Project Cost: \$12,000,000 **Estimated ITD Expenditures:** \$759,700 **Operating Impact:** \$0

Estimated Completion Date: 12-31-2005

Location: Shea Boulevard - Pima Freeway to Hayden Road

Description: Construct four miles of water transmission main from Shea Blvd. to the Arizona Canal to deliver water to McCormick Ranch and back up the Chaparral Water Treatment Plant.

Funding Source(s)	Adopted FY 2004/05	FY 2005/06	FY 2006/07	FY 2007/08	FY 2008/09	Total
Water Rates	12,000.0	-	-	-	-	12,000.0

PROJECT DESCRIPTIONS

Water Management

CAP - Plant Expansion

Project Number: W0202

Project Cost: \$57,400,000 **Estimated ITD Expenditures:** \$2,710,100 **Operating Impact:** \$1,300,000

Estimated Completion Date: 06-30-2008

Location: 8660 E. Union Hills Road

Description: The existing CAP water treatment plant will be expanded from its current capacity of 50 mgd to a capacity of 75 mgd. This will allow the replacement of well water in north Scottsdale with treated surface water, in compliance with Federal and State laws.

Funding Source(s)	Adopted FY 2004/05	FY 2005/06	FY 2006/07	FY 2007/08	FY 2008/09	Total
Water Dev Fees	13,400.0	3,000.0	3,000.0	20,000.0	-	39,400.0
Water Rates	18,000.0	-	-	-	-	18,000.0
Total	31,400.0	3,000.0	3,000.0	20,000.0	-	57,400.0

Chaparral Water Treatment Plant

Project Number: W9911

Project Cost: \$78,357,900 **Estimated ITD Expenditures:** \$14,779,400 **Operating Impact:** \$200,000

Estimated Completion Date: 07-31-2005

Location: East of southeast corner of Hayden Road /McDonald Drive

Description: Design and construct a 30 million gallons per day water treatment plant to treat the city's allocation of SRP water. The City of Phoenix currently provides treatment of this water per an Intergovernmental Agreement. That agreement expires in 2005.

Funding Source(s)	Adopted FY 2004/05	FY 2005/06	FY 2006/07	FY 2007/08	FY 2008/09	Total
Water Dev Fees	3,134.3	-	-	-	-	3,134.3
Water Rates	75,223.6	-	-	-	-	75,223.6
Total	78,357.9	-	-	-	-	78,357.9

Chaparral WTP Influent Waterline

Project Number: W4702

Project Cost: \$5,242,800 **Estimated ITD Expenditures:** \$903,400 **Operating Impact:** \$1,000

Estimated Completion Date: 07-31-2005

Location: 82nd Street west of canal, south on 82nd Street, across McDonald Drive to Chaparral WTP

Description: Design and construct a 54-inch diameter influent waterline from the Arizona Canal to the Chaparral Water Treatment Plant.

Funding Source(s)	Adopted FY 2004/05	FY 2005/06	FY 2006/07	FY 2007/08	FY 2008/09	Total
Water Rates	4,718.5	-	-	-	-	4,718.5
Water Dev Fees	524.3	-	-	-	-	524.3
Total	5,242.8	-	-	-	-	5,242.8

PROJECT DESCRIPTIONS

Water Management

Chaparral WTP Water Distribution System

Project Number: W0302

Project Cost: \$9,500,000

Estimated ITD Expenditures: \$250,800

Operating Impact: \$2,000

Estimated Completion Date: 09-30-2005

Location: Multiple locations

Description: Construct two miles of 42" water transmission main from McDonald Drive to Indian School Road.

Funding Source(s)	Adopted FY 2004/05	FY 2005/06	FY 2006/07	FY 2007/08	FY 2008/09	Total
Water Rates	9,320.0	-	-	-	-	9,320.0
Water Dev Fees	180.0	-	-	-	-	180.0
Total	9,500.0	-	-	-	-	9,500.0

Citywide Flow Monitoring

Project Number: V9902

Project Cost: \$910,000

Estimated ITD Expenditures: \$440,200

Operating Impact: \$0

Estimated Completion Date: 06-30-2005

Location: Multiple locations

Description: Conduct flow monitoring at various locations throughout Scottsdale to validate flow levels in the sanitary sewer system.

Funding Source(s)	Adopted FY 2004/05	FY 2005/06	FY 2006/07	FY 2007/08	FY 2008/09	Total
Sewer Dev Fees	660.0	-	-	-	-	660.0
Sewer Rates	250.0	-	-	-	-	250.0
Total	910.0	-	-	-	-	910.0

Core North/South Sewer

Project Number: V0501

Project Cost: \$2,598,000

Estimated ITD Expenditures: \$0

Operating Impact: \$5,000

Estimated Completion Date: 12-31-2009

Location: Stacked 40 boundary to Hayden Road

Description: Construct sewer lines within the Stacked 40 northern and southern areas.

Funding Source(s)	Adopted FY 2004/05	FY 2005/06	FY 2006/07	FY 2007/08	FY 2008/09	Total
Sewer Dev Fees	567.0	322.0	87.5	802.5	819.0	2,598.0

PROJECT DESCRIPTIONS

Water Management

Core North/South Water

Project Number: W0501

Project Cost: \$2,598,000

Estimated ITD Expenditures: \$0

Operating Impact: \$5,000

Estimated Completion Date: 12-31-2009

Location: Stacked 40 boundary to Hayden Road

Description: Construct water lines within the Stacked 40 northern and southern areas.

Funding Source(s)	Adopted FY 2004/05	FY 2005/06	FY 2006/07	FY 2007/08	FY 2008/09	Total
Water Dev Fees	567.0	322.0	87.5	802.5	819.0	2,598.0

Deep Well Recharge/Recovery Facilities

Project Number: W8515

Project Cost: \$5,100,000

Estimated ITD Expenditures: \$480,500

Operating Impact: \$2,000

Estimated Completion Date: 06-30-2009

Location: Multiple locations

Description: Design and construct deep well recharge and recovery facilities. Location of facilities will be determined by a pilot program and hydrological study.

Funding Source(s)	Adopted FY 2004/05	FY 2005/06	FY 2006/07	FY 2007/08	FY 2008/09	Total
Wtr Res Dev Fees	3,100.0	-	1,000.0	-	1,000.0	5,100.0

Inner Circle Booster Pump Station

Project Number: W0502

Project Cost: \$1,600,000

Estimated ITD Expenditures: \$0

Operating Impact: \$2,000

Estimated Completion Date: 06-30-2006

Location: Inner Circle Drive and Pima

Description: Design and construct a new booster pump station to deliver water from Chaparral Water Treatment Plant to Shea Blvd. and Pima Freeway areas.

Funding Source(s)	Adopted FY 2004/05	FY 2005/06	FY 2006/07	FY 2007/08	FY 2008/09	Total
Water Rates	400.0	1,200.0	-	-	-	1,600.0

PROJECT DESCRIPTIONS

Water Management

Master Plan Update - Sewer

Project Number: V8620

Project Cost: \$483,400

Estimated ITD Expenditures: \$217,600

Operating Impact: \$0

Estimated Completion Date: 06-30-2006

Location: Citywide

Description: Perform and update wastewater master plans to ensure that the City is current with future growth statistics and to provide recommendations for capital projects.

Funding Source(s)	Adopted FY 2004/05	FY 2005/06	FY 2006/07	FY 2007/08	FY 2008/09	Total
Sewer Dev Fees	383.4	100.0	-	-	-	483.4

Master Plan Update - Water

Project Number: W8525

Project Cost: \$1,066,800

Estimated ITD Expenditures: \$433,100

Operating Impact: \$0

Estimated Completion Date: 06-30-2006

Location: Citywide

Description: Perform and update water quality master plans to ensure that the City is current with future growth statistics and to provide recommendations for capital projects.

Funding Source(s)	Adopted FY 2004/05	FY 2005/06	FY 2006/07	FY 2007/08	FY 2008/09	Total
Water Dev Fees	766.8	300.0	-	-	-	1,066.8

Miller Road Sewer – Phase 3

Project Number: V2101

Project Cost: \$4,300,000

Estimated ITD Expenditures: \$100

Operating Impact: \$2,000

Estimated Completion Date: 06-30-2006

Location: Miller Road from McDowell Road to the Princess Metering Station

Description: Replace existing sewer in Miller Road from McDowell Road south to the Princess Metering Station due to redevelopment in the downtown areas. Existing sewers are reaching capacity and will be susceptible to surcharging.

Funding Source(s)	Adopted FY 2004/05	FY 2005/06	FY 2006/07	FY 2007/08	FY 2008/09	Total
Sewer Dev Fees	1,300.0	3,000.0	-	-	-	4,300.0

PROJECT DESCRIPTIONS

Water Management

Radio Telemetry Monitoring Automation - Sewer

Project Number: V4001

Project Cost: \$766,400

Estimated ITD Expenditures: \$363,900

Operating Impact: \$4,000

Estimated Completion Date: 06-30-2007

Location: Citywide

Description: Construct radio telemetry facilities at new and existing wastewater facilities. This will improve operational efficiency by controlling and monitoring citywide wastewater facilities from a central location.

Funding Source(s)	Adopted FY 2004/05	FY 2005/06	FY 2006/07	FY 2007/08	FY 2008/09	Total
Sewer Rates	655.5	54.6	56.3	-	-	766.4

Radio Telemetry Monitoring Automation - Water

Project Number: W4001

Project Cost: \$1,341,700

Estimated ITD Expenditures: \$550,200

Operating Impact: \$5,000

Estimated Completion Date: 06-30-2007

Location: Citywide

Description: Construct radio telemetry facilities at new and existing water facilities. This will improve operational efficiency by controlling and monitoring citywide water facilities from a central location.

Funding Source(s)	Adopted FY 2004/05	FY 2005/06	FY 2006/07	FY 2007/08	FY 2008/09	Total
Water Rates	1,064.4	136.6	140.7	-	-	1,341.7

Regional GAC Regeneration Facility

Project Number: W0503

Project Cost: \$4,650,000

Estimated ITD Expenditures: \$0

Operating Impact: \$1,500,000

Estimated Completion Date: 12-31-2007

Location: Outside of Scottsdale – exact location not yet determined

Description: Fund Scottsdale's share of a Regional Granular Activated Carbon (GAC) Regeneration Facility. This will allow Scottsdale to reuse the GAC that is utilized in the water treatment process at the CAP Water Treatment Plant and at the Chaparral Water Treatment Plant, rather than purchasing new GAC, at higher cost, for each change-out.

Funding Source(s)	Adopted FY 2004/05	FY 2005/06	FY 2006/07	FY 2007/08	FY 2008/09	Total
Water Rates	380.0	1,270.0	1,800.0	-	-	3,450.0
Water Dev Fees	-	-	1,200.0	-	-	1,200.0
Total	380.0	1,270.0	3,000.0	-	-	4,650.0

PROJECT DESCRIPTIONS

Water Management

Relief Sewers - Citywide

Project Number: V9908

Project Cost: \$4,000,000

Estimated ITD Expenditures: \$731,800

Operating Impact: \$2,000

Estimated Completion Date: 06-30-2008

Location: Citywide

Description: Design and construction of relief sewer capacity at various locations throughout the City as the need is identified in the capital program.

Funding Source(s)	Adopted FY 2004/05	FY 2005/06	FY 2006/07	FY 2007/08	FY 2008/09	Total
Sewer Dev Fees	2,500.0	500.0	500.0	500.0	-	4,000.0

RWDS Improvements

Project Number: V0502

Project Cost: \$1,350,000

Estimated ITD Expenditures: \$0

Operating Impact: \$0

Estimated Completion Date: 06-30-2007

Location: North of CAP Canal

Description: Improvements to the pipeline pump stations, and reservoirs related to the Reclaimed Water Distribution System.

Funding Source(s)	Adopted FY 2004/05	FY 2005/06	FY 2006/07	FY 2007/08	FY 2008/09	Total
RWDS Fund	865.0	-	485.0	-	-	1,350.0

Security Enhancements

Project Number: W0303

Project Cost: \$2,250,000

Estimated ITD Expenditures: \$168,800

Operating Impact: \$2,000

Estimated Completion Date: 06-30-2009

Location: Citywide

Description: Enhance security at water and wastewater facilities throughout the City by upgrading existing prevention, detection and response systems.

Funding Source(s)	Adopted FY 2004/05	FY 2005/06	FY 2006/07	FY 2007/08	FY 2008/09	Total
Water Rates	850.0	350.0	350.0	350.0	350.0	2,250.0

PROJECT DESCRIPTIONS

Water Management

Sewer Collection System Improvements

Project Number: V3704

Project Cost: \$7,796,000

Estimated ITD Expenditures: \$2,548,800

Operating Impact: \$0

Estimated Completion Date: 06-30-2009

Location: Citywide

Description: Design and construct sewer lines and rehabilitate sewer manholes in the aging areas of the sewer system.

Funding Source(s)	Adopted FY 2004/05	FY 2005/06	FY 2006/07	FY 2007/08	FY 2008/09	Total
Sewer Rates	5,296.0	500.0	1,100.0	300.0	600.0	7,796.0

Sewer Oversizing

Project Number: V0703

Project Cost: \$1,835,700

Estimated ITD Expenditures: \$1,124,700

Operating Impact: \$0

Estimated Completion Date: 06-30-2005

Location: Citywide

Description: Oversize sewer facilities to provide for future ultimate capacity to Master Plan standards.

Funding Source(s)	Adopted FY 2004/05	FY 2005/06	FY 2006/07	FY 2007/08	FY 2008/09	Total
Sewer Dev Fees	1,835.7	-	-	-	-	1,835.7

Union Hills to Hualapai Transmission Line – Pima Rd.

Project Number: W0401

Project Cost: \$750,000

Estimated ITD Expenditures: \$0

Operating Impact: \$0

Estimated Completion Date: 02-28-2006

Location: Pima Road from Union Hills to Hualapai

Description: Complete water line to transmit water from the water campus via Booster Pump Station #55B to the reservoirs in DC Ranch.

Funding Source(s)	Adopted FY 2004/05	FY 2005/06	FY 2006/07	FY 2007/08	FY 2008/09	Total
Water Dev Fees	750.0	-	-	-	-	750.0

PROJECT DESCRIPTIONS

Water Management

Water Distribution System Improvements

Project Number: W9912

Project Cost: \$15,250,000 **Estimated ITD Expenditures:** \$3,732,000 **Operating Impact:** \$0

Estimated Completion Date: 06-30-2009

Location: Citywide

Description: Identify and replace water mains, meters, and pressure reducing valves that are inadequately sized. Also, design and construct new water mains at various locations throughout the distribution system to complete loops, provide a backup source, and improve the system to reduce operating costs.

Funding Source(s)	Adopted FY 2004/05	FY 2005/06	FY 2006/07	FY 2007/08	FY 2008/09	Total
Water Rates	7,500.0	2,500.0	2,000.0	1,250.0	2,000.0	15,250.0

Water Oversizing

Project Number: W0710

Project Cost: \$8,214,100 **Estimated ITD Expenditures:** \$5,910,300 **Operating Impact:** \$0

Estimated Completion Date: 06-30-2005

Location: Citywide

Description: Oversize water facilities to provide for future ultimate capacity to Master Plan standards.

Funding Source(s)	Adopted FY 2004/05	FY 2005/06	FY 2006/07	FY 2007/08	FY 2008/09	Total
Water Dev Fees	8,214.1	-	-	-	-	8,214.1

Water Quality Improvements - Southern Neighborhoods

Project Number: W0205

Project Cost: \$10,500,000 **Estimated ITD Expenditures:** \$710,700 **Operating Impact:** \$0

Estimated Completion Date: 02-28-2006

Location: Thomas Road and Pima Freeway

Description: Upgrade the City's existing facility in the area of Thomas and 86th Street to address EPA-directed maximum arsenic levels in ground water and to enhance the quality of potable water being produced at this site, by reducing nitrates, total dissolved solids and hardness.

Funding Source(s)	Adopted FY 2004/05	FY 2005/06	FY 2006/07	FY 2007/08	FY 2008/09	Total
Water Rates	10,100.0	-	-	-	-	10,100.0
Water Dev Fees	400.0	-	-	-	-	400.0
Total	10,500.0	-	-	-	-	10,500.0

PROJECT DESCRIPTIONS

Water Management

Water Reclamation Plant - Phase 3

Project Number: V0205

Project Cost: \$23,750,000

Estimated ITD Expenditures: \$2,266,600

Operating Impact: \$0

Estimated Completion Date: 01-31-2006

Location: 8787 E. Hualapai Drive

Description: Expand the existing 12 mgd Water Reclamation Plant at the Water Campus to 20 mgd. Additional facilities consist of a primary and secondary sedimentation basin, aeration basin, disk filter and the associated pumps, electrical and instrumentation features.

Funding Source(s)	Adopted FY 2004/05	FY 2005/06	FY 2006/07	FY 2007/08	FY 2008/09	Total
Sewer Dev Fees	20,750.0	3,000.0	-	-	-	23,750.0

Water Rights Acquisition

Project Number: W6160

Project Cost: \$64,968,000

Estimated ITD Expenditures: \$41,915,600

Operating Impact: \$0

Estimated Completion Date: 06-30-2008

Location: Multiple locations

Description: Acquire, develop and manage pending and future water resources to meet requirements of build-out demands and secure a long-term assured water supply as projected by the current Water Resources Master Plan.

Funding Source(s)	Adopted FY 2004/05	FY 2005/06	FY 2006/07	FY 2007/08	FY 2008/09	Total
Wtr Res Dev Fees	44,052.0	-	-	20,916.0	-	64,968.0

Waterline Replacements

Project Number: W8570

Project Cost: \$16,491,000

Estimated ITD Expenditures: \$11,963,000

Operating Impact: \$3,000

Estimated Completion Date: 06-30-2009

Location: Citywide

Description: Design and construct waterline repair/replacement projects at various locations throughout the city to upgrade existing plastic water lines to acceptable standards.

Funding Source(s)	Adopted FY 2004/05	FY 2005/06	FY 2006/07	FY 2007/08	FY 2008/09	Total
Water Rates	16,491.0	-	-	-	-	16,491.0

PROJECT DESCRIPTIONS

Water Management

Well Sites

Project Number: W4708

Project Cost: \$24,142,100 **Estimated ITD Expenditures:** \$14,266,400 **Operating Impact:** \$20,000

Estimated Completion Date: 07-31-2008

Location: Multiple locations

Description: Design and construct new wells and upgrade existing wells at locations determined through the 2001 Water Resources Master Plan.

Funding Source(s)	Adopted FY 2004/05	FY 2005/06	FY 2006/07	FY 2007/08	FY 2008/09	Total
Water Dev Fees	17,142.1	3,000.0	1,000.0	3,000.0	-	24,142.1

Zone 12/13 Water System Improvements

Project Number: W9913

Project Cost: \$8,528,000 **Estimated ITD Expenditures:** \$6,197,200 **Operating Impact:** \$0

Estimated Completion Date: 10-31-2004

Location: 114th Street and Dixileta Drive

Description: Design and construct a 3 MG Zone 12 reservoir in the vicinity of 114th Street and Dixileta Drive. Design and construct a Zone 13 booster pump station at Alma School Road and Dixileta Drive.

Funding Source(s)	Adopted FY 2004/05	FY 2005/06	FY 2006/07	FY 2007/08	FY 2008/09	Total
Water Dev Fees	8,528.0	-	-	-	-	8,528.0

Zone 12/13 Water Transmission Lines

Project Number: W0304

Project Cost: \$6,680,000 **Estimated ITD Expenditures:** \$79,300 **Operating Impact:** \$5,000

Estimated Completion Date: 02-28-2005

Location: 114th Street and Dixileta Drive

Description: Design and construct two Zone 12 water transmission lines, in 114th Street from Dynamite Blvd. to the new reservoir site at the SWC of 114th Street and Dixileta Drive. Construct approximately 18,500LF of Zone 13 water line from the new reservoir site to 114th Street then south to Jomax.

Funding Source(s)	Adopted FY 2004/05	FY 2005/06	FY 2006/07	FY 2007/08	FY 2008/09	Total
Water Dev Fees	6,680.0	-	-	-	-	6,680.0